

5.0 credits	30.0 h	2q
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Teacher(s) :	Barbarin Jérôme ;
Language :	Anglais
Place of the course	Louvain-la-Neuve
Main themes :	After an introduction to term structure of interest rates and risk measure, the main tools of ALM are presented in a deterministic and a stochastic framework. In a second part, these techniques are applied to various practical problems of ALM in insurance. The theoretical part is completed with reference papers and exercises
Aims :	The aim of this course is to present the basic principles of Asset and Liability management applied to insurance companies. At the end of the course, the students must know the ALM methods and understand the main ALM problems of an insurance companies <i>The contribution of this Teaching Unit to the development and command of the skills and learning outcomes of the programme(s) can be accessed at the end of this sheet, in the section entitled "Programmes/courses offering this Teaching Unit".</i>
Evaluation methods :	Case study
Content :	The following topics will be covered: -- Assets and Liabilities of an insurance company and their associated risks -- ALM tools of first generation (statistic deterministic analysis) -- Off-Balance sheet instruments and their uses in ALM -- ALM tools of second generation (stress testing) -- ALM of third generation (stochastic models) -- Performance measures and Risk Measures (Value at Risk and others) -- Economic capital and Regulatory Capital (Solvency II)
Bibliography :	Slides will be provided through icampus.
Cycle and year of study :	> Master [120] in Actuarial Science > Master [120] in Business Engineering > Master [120] in Business engineering
Faculty or entity in charge:	LSBA